



Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Date of Report: 08/19/2014

Victorio Tostado

City of Patterson
P.O. Box 667
Patterson, CA 95363

Client Project: Solids Clean up
BCL Project: Biosolids
BCL Work Order: 1417252
Invoice ID: B180995

Enclosed are the results of analyses for samples received by the laboratory on 7/31/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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DENALI_002729



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Chain of Custody Form

Client:	City of Patterson			Project #:	Solids Clean UP	
Attn:				Project Name:		
Street Address:	14901 Poplar			Sampler(s):	Nathan Gular	
City, State, Zip:	Patterson CA 95363			Date Sampled	Time Sampled	
Phone:	Fax:					
Email Address:						
Work Order #:	Sample #	Description		Date	Time	Sampled
14-17252	-1	Composite Sample 1-7-7				
	-2	Discrete Sample 1				

Client: Attn: Street Address: City, State, Zip: Phone: Email Address: Work Order #:		Project #: Solids Clean Up																																					
Analysis Requested <i>See Attached Sheet</i>																																							
Comments: <i>See Attached Sheet</i>																																							
<table border="1"> <thead> <tr> <th>Sample Matrix</th> <th># of work days Turnaround</th> <th>Are there any tests with holding times less than or equal to 48 hours?</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Soil</td> <td></td> <td><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</td> <td></td> </tr> <tr> <td>Drinking Water</td> <td></td> <td></td> <td>* Standard Turnaround = 10 work days</td> </tr> <tr> <td>Ground Water</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Waste Water</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Sample Matrix	# of work days Turnaround	Are there any tests with holding times less than or equal to 48 hours?	Notes	Soil		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Drinking Water			* Standard Turnaround = 10 work days	Ground Water				Waste Water				Other															
Sample Matrix	# of work days Turnaround	Are there any tests with holding times less than or equal to 48 hours?	Notes																																				
Soil		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																					
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Sample #	Description	Date Sampled	Time Sampled																																				
-1	Composite Sample 1-7	7-31/14	0800																																				
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-4	" " 4		0809																																				
-5	" " 5		0811*																																				
-6	" " 6		0814																																				
-7	" " 7		0817																																				
-8																																							
<p style="text-align: right;"> <input checked="" type="checkbox"/> CHK BY MA 213452 <input type="checkbox"/> DISTRIBUTION <input type="checkbox"/> SUB-OUT </p>																																							

Billing		<input type="checkbox"/> Same as above	EDF Required? Geotracker <input type="checkbox"/> Yes <input type="checkbox"/> No	Global ID (Needed for EDF)			System # (Needed for EDF)		
Client:		1. Relinquished By <u>Matt Bohm</u>			Date 7/31/14	Time 9:00	1. Received By <u>Jean Berger</u>	Date 7-31-14	Time 1:45
Address:		2. Relinquished By <u>Jean Berger</u>			Date 7-31-14	Time 1:00	2. Received By <u>Bob</u>	Date 7-31-14	Time 19:00
City: _____ State: _____ Zip: _____		3. Relinquished By <u>Jean Berger</u>			Date 7-31-14	Time 2:00	3. Received By <u>Bob</u>	Date 7/31/14	Time 22:00
Attn: _____									
PO#:									

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1417252 Page 2 of 3

BC LABORATORIES INC.		COOLER RECEIPT FORM			Rev. No. 17	06/05/14	Page <u>1</u> Of <u>1</u>			
Submission #: 14-17252										
SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____				SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>				
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: No ice										
Custody Seals Ice Chest <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Containers <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		None <input checked="" type="checkbox"/> Comments:						
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.98 Container: Glass Thermometer ID: 207 Temperature: (A) 26.9 °C / (C) 27.0 °C		Date/Time: 7/3/14 22:00 Analyst Init: MJI						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	()	()	()	()	()	()	()	()	()	
40ml VOA VIAL	()	()	()	()	()	()	()	()	()	
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR	A	A	A	A	A	A	A			
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:

Sample Numbering Completed By: MJI

Date/Time: 7/3/14 @ 23:00

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A = Actual / C = Corrected

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14-17252

City Of Patterson
WQCF
Date: 7/31/14

Descrete 1:

Land Use Annual Biosolids
Coliform-LTB Series (35 tube)
Descrete 1 Wet Chemistry

Run % moisture, then composite sample 1-7 for sample 8 analyses

Descrete 2:

Coliform-LTB Series (35 tube)
Descrete 2 Wet Chemistry

Run % moisture, then composite sample 1-7 for sample 8 analyses

Descrete 3:

Coliform-LTB Series (35 tube)
Descrete 3 Wet Chemistry

Run % moisture, then composite sample 1-7 for sample 8 analyses

Descrete 4:

Coliform-LTB Series (35 tube)
Descrete 4 Wet Chemistry

Run % moisture, then composite sample 1-7 for sample 8 analyses

Descrete 5:

Coliform-LTB Series (35 tube)
Descrete 5 Wet Chemistry

Run % moisture, then composite sample 1-7 for sample 8 analyses

Descrete 6:

Coliform-LTB Series (35 tube)
Descrete 6 Wet Chemistry

Run % moisture, then composite sample 1-7 for sample 8 analyses

Descrete 7:

Coliform-LTB Series (35 tube)
Descrete 7 Wet Chemistry

Run % moisture, then composite sample 1-7 for sample 8 analyses

Composite Sample of 1-7

Wet chemistry-NH3-N, conductivity, no3-n, N-organic, Total-N, TKN, ph, TDS, and % solids

Composite sample 1-7

Metals, Total_AS, Cd, Cr, cu, pb, Hg, Mo, Ni, P, K, Se, and Zn (please report dry wet)

Composite sample of 1-7

Sub-organic-EPA 8081

Composite sample of 1-7

Sub-organic-EPA 8082

Composite sample of 1-7

EPA 8270 (8oz glass jar)



City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 08/19/2014 13:37
Project: Biosolids
Project Number: Solids Clean up
Project Manager: Victorio Tostado

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
1417252-01	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Composite Sample 1-7 Sampled By: Nathan Gardner		Receive Date: 07/31/2014 22:20 Sampling Date: 07/30/2014 00:00 Sample Depth: --- Lab Matrix: Solids Sample Type: Solid waste		
1417252-02	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Discrete Sample 1 Sampled By: Nathan Gardner		Receive Date: 07/31/2014 22:20 Sampling Date: 07/31/2014 08:00 Sample Depth: --- Lab Matrix: Solids Sample Type: Solid waste		
1417252-03	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Discrete Sample 2 Sampled By: Nathan Gardner		Receive Date: 07/31/2014 22:20 Sampling Date: 07/31/2014 08:05 Sample Depth: --- Lab Matrix: Solids Sample Type: Solid waste		
1417252-04	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Discrete Sample 3 Sampled By: Nathan Gardner		Receive Date: 07/31/2014 22:20 Sampling Date: 07/31/2014 08:07 Sample Depth: --- Lab Matrix: Solids Sample Type: Solid waste		
1417252-05	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Discrete Sample 4 Sampled By: Nathan Gardner		Receive Date: 07/31/2014 22:20 Sampling Date: 07/31/2014 08:09 Sample Depth: --- Lab Matrix: Solids Sample Type: Solid waste		
1417252-06	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Discrete Sample 5 Sampled By: Nathan Gardner		Receive Date: 07/31/2014 22:20 Sampling Date: 07/31/2014 08:11 Sample Depth: --- Lab Matrix: Solids Sample Type: Solid waste		
1417252-07	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Discrete Sample 6 Sampled By: Nathan Gardner		Receive Date: 07/31/2014 22:20 Sampling Date: 07/31/2014 08:14 Sample Depth: --- Lab Matrix: Solids Sample Type: Solid waste		

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City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 08/19/2014 13:37
Project: Biosolids
Project Number: Solids Clean up
Project Manager: Victorio Tostado

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1417252-08	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: Discrete Sample 7 Sampled By: Nathan Gardner	Receive Date: 07/31/2014 22:20 Sampling Date: 07/31/2014 08:17 Sample Depth: --- Lab Matrix: Solids Sample Type: Solid waste	



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LABORATORIES, INC.
ENVIRONMENTAL TESTING LABORATORY SINCE 1949

City of Patterson
14901 Poplar Ave.
Patterson, CA 93363
ATTN: Greg (209) 892-8896

Date Reported: 08/06/2014
Date Received: 07/31/2014
Laboratory No: 14-17252-2
Date Started: 08/01/2014 @ 09:05

BACTERIOLOGICAL ANALYSIS

Sample Description: Discrete Sample I

<u>Lab Number</u>	<u>0.10 mL</u>	<u>0.010 mL</u>	<u>0.0010 mL</u>	<u>0.00010 mL</u>	<u>Combination of Positives</u>
14-17252-2	3/5	0/5	0/5	0/5	3/0/0

Note: Total Solids content = 91.16 %

$$MPN \text{ Total Coliform/g} = \frac{10 \times 8}{0.10 \times 91.16} = 8$$

<u>Lab Number</u>	<u>0.10 mL</u>	<u>0.010 mL</u>	<u>0.0010 mL</u>	<u>0.00010 mL</u>	<u>Combination of Positives</u>
14-17252-2	1/5	0/5	0/5	0/5	1/0/0

Note: Total Solids content = 91.16 %

$$MPN \text{ Fecal Coliform/g} = \frac{10 \times 2}{0.10 \times 91.16} = 2$$


Marna Atencio
Department Supervisor

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ENVIRONMENTAL TESTING LABORATORY SINCE 1949

City of Patterson
14901 Poplar Ave.
Patterson, CA 93363
ATTN: Greg (209) 892-8896

Date Reported: 08/06/2014
Date Received: 07/31/2014
Laboratory No: 14-17252-23
Date Started: 08/01/2014 @ 09:05

BACTERIOLOGICAL ANALYSIS

Sample Description: Discrete Sample 2

<u>Lab Number</u>	<u>0.10 mL</u>	<u>0.010 mL</u>	<u>0.0010 mL</u>	<u>0.00010 mL</u>	<u>Combination of Positives</u>
14-17252-3	1/5	0/5	0/5	0/5	1/0/0

Note: Total Solids content = 85.60 %

$$MPN \text{ Total Coliform/g} = \frac{10 \times 2}{0.10 \times 85.60} = 2$$

<u>Lab Number</u>	<u>0.10 mL</u>	<u>0.010 mL</u>	<u>0.0010 mL</u>	<u>0.00010 mL</u>	<u>Combination of Positives</u>
14-17252-3	1/5	0/5	0/5	0/5	1/0/0

Note: Total Solids content = 85.60 %

$$MPN \text{ Fecal Coliform/g} = \frac{10 \times 2}{0.10 \times 85.60} = 2$$

Marna Atencio
Department Supervisor

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DENALI_002737



LABORATORIES, INC.
ENVIRONMENTAL TESTING LABORATORY SINCE 1949

City of Patterson
14901 Poplar Ave.
Patterson, CA 93363
ATTN: Greg (209) 892-8896

Date Reported: 08/06/2014
Date Received: 07/31/2014
Laboratory No: 14-17252-4
Date Started: 08/01/2014 @ 09:05

BACTERIOLOGICAL ANALYSIS

Sample Description: Discrete Sample 3

<u>Lab Number</u>	<u>0.10 mL</u>	<u>0.010 mL</u>	<u>0.0010 mL</u>	<u>0.00010 mL</u>	<i>Combination of Positives</i>
14-17252-4	5/5	1/5	0/5	0/5	5/1/0

Note: Total Solids content = 90.01 %

$$MPN \text{ Total Coliform/g} = \frac{10 \times 30}{0.10 \times 90.01} = 33$$

<u>Lab Number</u>	<u>0.10 mL</u>	<u>0.010 mL</u>	<u>0.0010 mL</u>	<u>0.00010 mL</u>	<i>Combination of Positives</i>
14-17252-4	5/5	1/5	0/5	0/5	5/1/0

Note: Total Solids content = 91.01 %

$$MPN \text{ Fecal Coliform/g} = \frac{10 \times 30}{0.10 \times 91.01} = 33$$

Marna Atencio
Department Supervisor

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Laboratories, Inc.

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LABORATORIES, INC.
ENVIRONMENTAL TESTING LABORATORY SINCE 1949

City of Patterson
14901 Poplar Ave.
Patterson, CA 93363
ATTN: Greg (209) 892-8896

Date Reported: 08/06/2014
Date Received: 07/31/2014
Laboratory No: 14-17252-5
Date Started: 08/01/2014 @ 09:05

BACTERIOLOGICAL ANALYSIS

Sample Description: Discrete Sample 4

<u>Lab Number</u>	<u>0.10 mL</u>	<u>0.010 mL</u>	<u>0.0010 mL</u>	<u>0.00010 mL</u>	<u>Combination of Positives</u>
14-17252-5	0/5	0/5	0/5	0/5	0/0/0

Note: Total Solids content = 91.97 %

$$MPN \text{ Total Coliform/g} = \frac{10 \times <2}{0.10 \times 91.97} = <2.2$$

<u>Lab Number</u>	<u>0.10 mL</u>	<u>0.010 mL</u>	<u>0.0010 mL</u>	<u>0.00010 mL</u>	<u>Combination of Positives</u>
14-17252-5	0/5	0/5	0/5	0/5	0/0/0

Note: Total Solids content = 91.97 %

$$MPN \text{ Fecal Coliform/g} = \frac{10 \times <2}{0.10 \times 91.97} = <2.2$$


Marna Atencio
Department Supervisor

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Laboratories, Inc.

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LABORATORIES, INC.
ENVIRONMENTAL TESTING LABORATORY SINCE 1949

City of Patterson
14901 Poplar Ave.
Patterson, CA 93363
ATTN: Greg (209) 892-8896

Date Reported: 08/06/2014
Date Received: 07/31/2014
Laboratory No: 14-17252-6
Date Started: 08/01/2014 @ 09:05

BACTERIOLOGICAL ANALYSIS

Sample Description: Discrete Sample 5

<u>Lab Number</u>	<u>0.10 mL</u>	<u>0.010 mL</u>	<u>0.0010 mL</u>	<u>0.00010 mL</u>	<u>Combination of Positives</u>
14-17252-6	0/5	0/5	0/5	0/5	0/0/0

Note: Total Solids content = 90.82 %

$$MPN \text{ Total Coliform/g} = \frac{10 \times <2}{0.10 \times 90.82} = <2.2$$

<u>Lab Number</u>	<u>0.10 mL</u>	<u>0.010 mL</u>	<u>0.0010 mL</u>	<u>0.00010 mL</u>	<u>Combination of Positives</u>
14-17252-6	0/5	0/5	0/5	0/5	0/0/0

Note: Total Solids content = 90.82 %

$$MPN \text{ Fecal Coliform/g} = \frac{10 \times <2}{0.10 \times 90.82} = <2.2$$


Marna Atencio
Department Supervisor

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DENALI_002740



City of Patterson
14901 Poplar Ave.
Patterson, CA 93363
ATTN: Greg (209) 892-8896

Date Reported: 08/06/2014
Date Received: 07/31/2014
Laboratory No: 14-17252-7
Date Started: 08/01/2014 @ 09:05

BACTERIOLOGICAL ANALYSIS

Sample Description: Discrete Sample 6

<u>Lab Number</u>	<u>0.10 mL</u>	<u>0.010 mL</u>	<u>0.0010 mL</u>	<u>0.00010 mL</u>	<u>Combination of Positives</u>
14-17252-7	5/5	1/5	0/5	0/5	5/1/0

Note: Total Solids content = 92.03 %

$$\text{MPN Total Coliform/g} = \frac{10 \times 30}{0.10 \times 92.03} = 32$$

<u>Lab Number</u>	<u>0.10 mL</u>	<u>0.010 mL</u>	<u>0.0010 mL</u>	<u>0.00010 mL</u>	<u>Combination of Positives</u>
14-17252-7	0/5	0/5	0/5	0/5	0/0/0

Note: Total Solids content = 92.03 %

$$\text{MPN Fecal Coliform/g} = \frac{10 \times \leq 2}{0.10 \times 92.03} = <2.2$$

Marna Atencio
Department Supervisor

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City of Patterson
14901 Poplar Ave.
Patterson, CA 93363
ATTN: Greg (209) 892-8896

Date Reported: 08/06/2014
Date Received: 07/31/2014
Laboratory No: 14-17252-8
Date Started: 08/01/2014 @ 09:05

BACTERIOLOGICAL ANALYSIS

Sample Description: Discrete Sample 7

<u>Lab Number</u>	<u>0.10 mL</u>	<u>0.010 mL</u>	<u>0.0010 mL</u>	<u>0.00010 mL</u>	<u>Combination of Positives</u>
14-17252-8	2/5	0/5	0/5	0/5	2/0/0

Note: Total Solids content = 90.66 %

$$MPN \text{ Total Coliform/g} = \frac{10 \times 4}{0.10 \times 90.66} = 4$$

<u>Lab Number</u>	<u>0.10 mL</u>	<u>0.010 mL</u>	<u>0.0010 mL</u>	<u>0.00010 mL</u>	<u>Combination of Positives</u>
14-17252-8	2/5	0/5	0/5	0/5	2/0/0

Note: Total Solids content = 90.66 %

$$MPN \text{ Fecal Coliform/g} = \frac{10 \times 4}{0.10 \times 90.66} = 4$$

Marna Atencio
Department Supervisor

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 08/19/2014 13:37

Project: Biosolids

Project Number: Solids Clean up

Project Manager: Victorio Tostado

Organochlorine Pesticides and PCB's (EPA Method 8080)

BCL Sample ID:	1417252-01	Client Sample Name: Composite Sample 1-7, 7/30/2014 12:00:00AM, Nathan Gardner							
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	ND	mg/kg	0.00050	0.000026	EPA-8080	ND		1
Dieldrin	ND	ND	mg/kg	0.00050	0.000032	EPA-8080	ND		1
PCB-1016	ND	ND	mg/kg	0.010	0.0027	EPA-8080	ND		1
PCB-1221	ND	ND	mg/kg	0.010	0.0038	EPA-8080	ND		1
PCB-1232	ND	ND	mg/kg	0.010	0.0024	EPA-8080	ND		1
PCB-1242	ND	ND	mg/kg	0.010	0.0040	EPA-8080	ND		1
PCB-1248	ND	ND	mg/kg	0.010	0.0026	EPA-8080	ND		1
PCB-1254	ND	ND	mg/kg	0.010	0.0032	EPA-8080	ND		1
PCB-1260	ND	ND	mg/kg	0.010	0.0016	EPA-8080	ND		1
PCB-1262	ND	ND	mg/kg	0.010	0.0044	EPA-8080	ND		1
PCB-1268	ND	ND	mg/kg	0.010	0.0026	EPA-8080	ND		1
Total PCB's (Summation)	ND	ND	mg/kg	0.010	0.0050	EPA-8080	ND		1
TCMX (Surrogate)	82.1	82.1	%	20 - 140 (LCL - UCL)		EPA-8080			1
Decachlorobiphenyl (Surrogate)	58.7	58.7	%	20 - 140 (LCL - UCL)		EPA-8080			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8080	08/06/14	08/08/14 23:40	VH1	GC-17	1.010	BXH0514



City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 08/19/2014 13:37

Project: Biosolids

Project Number: Solids Clean up

Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	1417252-01	Client Sample Name: Composite Sample 1-7, 7/30/2014 12:00:00AM, Nathan Gardner							
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ND	mg/kg	1.0	0.18	EPA-8270C	ND	A10	1
Acenaphthylene	ND	ND	mg/kg	1.0	0.19	EPA-8270C	ND	A10	1
Aldrin	ND	ND	mg/kg	1.0	0.24	EPA-8270C	ND	A10	1
Aniline	ND	ND	mg/kg	2.0	0.53	EPA-8270C	ND	A10	1
Anthracene	ND	ND	mg/kg	1.0	0.18	EPA-8270C	ND	A10	1
Benzidine	ND	ND	mg/kg	30	2.2	EPA-8270C	ND	A10	1
Benzo[a]anthracene	ND	ND	mg/kg	1.0	0.12	EPA-8270C	ND	A10	1
Benzo[b]fluoranthene	ND	ND	mg/kg	1.0	0.18	EPA-8270C	ND	A10	1
Benzo[k]fluoranthene	ND	ND	mg/kg	1.0	0.19	EPA-8270C	ND	A10	1
Benzo[a]pyrene	ND	ND	mg/kg	1.0	0.15	EPA-8270C	ND	A10	1
Benzo[g,h,i]perylene	ND	ND	mg/kg	1.0	0.56	EPA-8270C	ND	A10	1
Benzoic acid	ND	ND	mg/kg	5.0	0.67	EPA-8270C	ND	A10	1
Benzyl alcohol	ND	ND	mg/kg	1.0	0.18	EPA-8270C	ND	A10	1
Benzyl butyl phthalate	ND	ND	mg/kg	1.0	0.21	EPA-8270C	ND	A10	1
alpha-BHC	ND	ND	mg/kg	1.0	0.18	EPA-8270C	ND	A10	1
beta-BHC	ND	ND	mg/kg	1.0	0.21	EPA-8270C	ND	A10	1
delta-BHC	ND	ND	mg/kg	1.0	0.18	EPA-8270C	ND	A10	1
gamma-BHC (Lindane)	ND	ND	mg/kg	1.0	0.17	EPA-8270C	ND	A10	1
bis(2-Chloroethoxy)methane	ND	ND	mg/kg	1.0	0.17	EPA-8270C	ND	A10	1
bis(2-Chloroethyl) ether	ND	ND	mg/kg	1.0	0.16	EPA-8270C	ND	A10	1
bis(2-Chloroisopropyl)ether	ND	ND	mg/kg	1.0	0.21	EPA-8270C	ND	A10	1
bis(2-Ethylhexyl)phthalate	0.96	0.86	mg/kg	2.0	0.43	EPA-8270C	ND	J,A10	1
4-Bromophenyl phenyl ether	ND	ND	mg/kg	1.0	0.17	EPA-8270C	ND	A10	1
4-Chloroaniline	ND	ND	mg/kg	1.0	0.27	EPA-8270C	ND	A10	1
2-Choronaphthalene	ND	ND	mg/kg	1.0	0.20	EPA-8270C	ND	A10	1
4-Chlorophenyl phenyl ether	ND	ND	mg/kg	1.0	0.15	EPA-8270C	ND	A10	1
Chrysene	ND	ND	mg/kg	1.0	0.17	EPA-8270C	ND	A10	1
4,4'-DDD	ND	ND	mg/kg	1.0	0.17	EPA-8270C	ND	A10	1
4,4'-DDE	ND	ND	mg/kg	1.0	0.17	EPA-8270C	ND	A10	1
4,4'-DDT	ND	ND	mg/kg	1.0	0.19	EPA-8270C	ND	A10	1
Dibenzo[a,h]anthracene	ND	ND	mg/kg	1.0	0.19	EPA-8270C	ND	A10	1
Dibenzofuran	ND	ND	mg/kg	1.0	0.20	EPA-8270C	ND	A10	1

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DENALI_002744



City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 08/19/2014 13:37

Project: Biosolids

Project Number: Solids Clean up

Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	1417252-01	Client Sample Name: Composite Sample 1-7, 7/30/2014 12:00:00AM, Nathan Gardner							
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2-Dichlorobenzene	ND	ND	mg/kg	1.0	0.20	EPA-8270C	ND	A10	1
1,3-Dichlorobenzene	ND	ND	mg/kg	1.0	0.21	EPA-8270C	ND	A10	1
1,4-Dichlorobenzene	ND	ND	mg/kg	1.0	0.19	EPA-8270C	ND	A10	1
3,3-Dichlorobenzidine	ND	ND	mg/kg	2.0	0.067	EPA-8270C	ND	A10	1
Dieldrin	ND	ND	mg/kg	1.0	0.31	EPA-8270C	ND	A10	1
Diethyl phthalate	ND	ND	mg/kg	1.0	0.19	EPA-8270C	ND	A10	1
Dimethyl phthalate	ND	ND	mg/kg	1.0	0.20	EPA-8270C	ND	A10	1
Di-n-butyl phthalate	ND	ND	mg/kg	1.0	0.18	EPA-8270C	ND	A10	1
2,4-Dinitrotoluene	ND	ND	mg/kg	1.0	0.22	EPA-8270C	ND	A10	1
2,6-Dinitrotoluene	ND	ND	mg/kg	1.0	0.18	EPA-8270C	ND	A10	1
Di-n-octyl phthalate	ND	ND	mg/kg	1.0	0.17	EPA-8270C	ND	A10	1
1,2-Diphenylhydrazine	ND	ND	mg/kg	1.0	0.19	EPA-8270C	ND	A10	1
Endosulfan I	ND	ND	mg/kg	2.0	0.20	EPA-8270C	ND	A10	1
Endosulfan II	ND	ND	mg/kg	2.0	0.21	EPA-8270C	ND	A10	1
Endosulfan sulfate	ND	ND	mg/kg	1.0	0.21	EPA-8270C	ND	A10	1
Endrin	ND	ND	mg/kg	2.0	0.25	EPA-8270C	ND	A10	1
Endrin aldehyde	ND	ND	mg/kg	5.0	0.22	EPA-8270C	ND	A10	1
Fluoranthene	ND	ND	mg/kg	1.0	0.17	EPA-8270C	ND	A10	1
Fluorene	ND	ND	mg/kg	1.0	0.19	EPA-8270C	ND	A10	1
Heptachlor	ND	ND	mg/kg	1.0	0.21	EPA-8270C	ND	A10	1
Heptachlor epoxide	ND	ND	mg/kg	1.0	0.17	EPA-8270C	ND	A10	1
Hexachlorobenzene	ND	ND	mg/kg	1.0	0.16	EPA-8270C	ND	A10	1
Hexachlorobutadiene	ND	ND	mg/kg	1.0	0.17	EPA-8270C	ND	A10	1
Hexachlorocyclopentadiene	ND	ND	mg/kg	1.0	0.19	EPA-8270C	ND	A10	1
Hexachloroethane	ND	ND	mg/kg	1.0	0.20	EPA-8270C	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	ND	mg/kg	1.0	0.72	EPA-8270C	ND	A10	1
Isophorone	ND	ND	mg/kg	1.0	0.17	EPA-8270C	ND	A10	1
2-Methylnaphthalene	ND	ND	mg/kg	1.0	0.18	EPA-8270C	ND	A10	1
Naphthalene	ND	ND	mg/kg	1.0	0.18	EPA-8270C	ND	A10	1
2-Naphthylamine	ND	ND	mg/kg	30	1.6	EPA-8270C	ND	A10	1
2-Nitroaniline	ND	ND	mg/kg	1.0	0.18	EPA-8270C	ND	A10	1
3-Nitroaniline	ND	ND	mg/kg	2.0	0.15	EPA-8270C	ND	A10	1

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DENALI_002745



City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 08/19/2014 13:37

Project: Biosolids

Project Number: Solids Clean up

Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	1417252-01	Client Sample Name: Composite Sample 1-7, 7/30/2014 12:00:00AM, Nathan Gardner							
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
4-Nitroaniline	ND	ND	mg/kg	2.0	0.25	EPA-8270C	ND	A10	1
Nitrobenzene	ND	ND	mg/kg	1.0	0.15	EPA-8270C	ND	A10	1
N-Nitrosodimethylamine	ND	ND	mg/kg	1.0	0.37	EPA-8270C	ND	A10	1
N-Nitrosodi-N-propylamine	ND	ND	mg/kg	1.0	0.21	EPA-8270C	ND	A10	1
N-Nitrosodiphenylamine	ND	ND	mg/kg	1.0	0.21	EPA-8270C	ND	A10	1
Phenanthrene	ND	ND	mg/kg	1.0	0.18	EPA-8270C	ND	A10	1
Pyrene	ND	ND	mg/kg	1.0	0.17	EPA-8270C	ND	A10	1
1,2,4-Trichlorobenzene	ND	ND	mg/kg	1.0	0.18	EPA-8270C	ND	A10	1
4-Chloro-3-methylphenol	ND	ND	mg/kg	2.0	0.22	EPA-8270C	ND	A10	1
2-Chlorophenol	ND	ND	mg/kg	1.0	0.16	EPA-8270C	ND	A10	1
2,4-Dichlorophenol	ND	ND	mg/kg	1.0	0.17	EPA-8270C	ND	A10	1
2,4-Dimethylphenol	ND	ND	mg/kg	1.0	0.35	EPA-8270C	ND	A10	1
4,6-Dinitro-2-methylphenol	ND	ND	mg/kg	5.0	0.12	EPA-8270C	ND	A10	1
2,4-Dinitrophenol	ND	ND	mg/kg	5.0	0.077	EPA-8270C	ND	A10	1
2-Methylphenol	ND	ND	mg/kg	1.0	0.17	EPA-8270C	ND	A10	1
3- & 4-Methylphenol	4.0	3.6	mg/kg	2.0	0.33	EPA-8270C	ND	A10	1
2-Nitrophenol	ND	ND	mg/kg	1.0	0.16	EPA-8270C	ND	A10	1
4-Nitrophenol	ND	ND	mg/kg	2.0	0.18	EPA-8270C	ND	A10	1
Pentachlorophenol	ND	ND	mg/kg	2.0	0.13	EPA-8270C	ND	A10	1
Phenol	ND	ND	mg/kg	1.0	0.16	EPA-8270C	ND	A10	1
2,4,5-Trichlorophenol	ND	ND	mg/kg	2.0	0.18	EPA-8270C	ND	A10	1
2,4,6-Trichlorophenol	ND	ND	mg/kg	2.0	0.17	EPA-8270C	ND	A10	1
2-Fluorophenol (Surrogate)	88.1	88.1	%	28 - 144 (LCL - UCL)	EPA-8270C				1
Phenol-d5 (Surrogate)	101	101	%	36 - 136 (LCL - UCL)	EPA-8270C				1
Nitrobenzene-d5 (Surrogate)	106	106	%	31 - 135 (LCL - UCL)	EPA-8270C				1
2-Fluorobiphenyl (Surrogate)	90.8	90.8	%	20 - 140 (LCL - UCL)	EPA-8270C				1
2,4,6-Tribromophenol (Surrogate)	90.6	90.6	%	20 - 150 (LCL - UCL)	EPA-8270C				1
p-Terphenyl-d14 (Surrogate)	93.3	93.3	%	30 - 150 (LCL - UCL)	EPA-8270C				1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	08/06/14	08/07/14 21:38	VH1	MS-B1	9.468	BXH0515



City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 08/19/2014 13:37

Project: Biosolids

Project Number: Solids Clean up

Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1417252-01	Client Sample Name: Composite Sample 1-7, 7/30/2014 12:00:00AM, Nathan Gardner							
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride as NaCl (Salinity)	2100	1900	mg/kg	150	4.8	Calc	ND		1
Moisture	0	9.85	%	0.05	0.05	Calc	ND		1
Organic Nitrogen	76000	68000	mg/kg	4000	2000	Calc	ND		1
Total Nitrogen	86000	78000	mg/kg	6000	2000	Calc	ND		1
pH	6.17	6.17	pH Units	0.05	0.05	EPA-9040		pH1:3	2
pH Measurement Temperature	24.5	24.5	C	0.1	0.1	EPA-9040			2
Chloride	1300	1100	mg/kg	25	3.0	EPA-300.0	12	A01	3
Nitrate as N	ND	ND	mg/kg	5.0	1.3	EPA-300.0	1.8	A10	3
Total Kjeldahl Nitrogen	86000	78000	mg/kg	4000	1600	EPA-351.2	ND	A01	4
Ammonia as N	11000	9700	mg/kg	500	250	EPA-350.1	280	A01	5
Total Phosphorus	25000	22000	mg/kg	1000	430	EPA-365.4	ND	A01	6
Solids	100	90.2	%	0.05	0.05	SM-2540G			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Calc	08/01/14	08/14/14 13:01	TMS	Calc	1	BXH0078
2	EPA-9040	08/06/14	08/06/14 13:00	DIW	MANUAL	1	BXH0424
3	EPA-300.0	08/05/14	08/07/14 09:49	LD1	IC1	5	BXH0295
4	EPA-351.2	08/13/14	08/14/14 10:36	JP1	SC-1	100	BXH1135
5	EPA-350.1	08/05/14	08/06/14 10:32	JP1	SC-1	50	BXH0280
6	EPA-365.4	08/13/14	08/14/14 09:50	JP1	SC-1	100	BXH1137
7	SM-2540G	08/04/14	08/04/14 11:00	RAC	MANUAL	1	BXH0264



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Environmental Testing Laboratory Since 1949

City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 08/19/2014 13:37
Project: Biosolids
Project Number: Solids Clean up
Project Manager: Victorio Tostado

Modified WET Test (STLC)

BCL Sample ID:	1417252-01	Client Sample Name: Composite Sample 1-7, 7/30/2014 12:00:00AM, Nathan Gardner							
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Electrical Conductivity @ 25 C		6900	umhos/c m	1.0	1.0	EPA-120.1			1
Total Dissolved Solids @ 180 C		6600	mg/L	500	500	EPA-160.1	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-120.1	08/08/14	08/08/14 07:46	RML	MET-1	1	BXH0719
2	EPA-160.1	08/07/14	08/07/14 16:00	CAD	MANUAL	50	BXH0599



Laboratories, Inc.

Environmental Testing Laboratory Since 1949

City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 08/19/2014 13:37

Project: Biosolids

Project Number: Solids Clean up

Project Manager: Victorio Tostado

Total Concentrations (TTLC)

BCL Sample ID:	1417252-01	Client Sample Name: Composite Sample 1-7, 7/30/2014 12:00:00AM, Nathan Gardner							
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Arsenic	6.5	5.9	mg/kg	1.0	0.40	EPA-6010B	ND		1
Cadmium	0.92	0.83	mg/kg	0.50	0.052	EPA-6010B	ND		1
Chromium	94	84	mg/kg	0.50	0.050	EPA-6010B	ND		1
Copper	260	230	mg/kg	1.0	0.050	EPA-6010B	ND		1
Lead	8.3	7.5	mg/kg	2.5	0.28	EPA-6010B	ND		1
Mercury	1.7	1.5	mg/kg	0.16	0.036	EPA-7471A	ND		2
Molybdenum	6.4	5.8	mg/kg	2.5	0.050	EPA-6010B	ND		1
Nickel	17	15	mg/kg	0.50	0.15	EPA-6010B	ND		1
Selenium	22	20	mg/kg	1.0	0.98	EPA-6010B	ND		1
Zinc	740	660	mg/kg	2.5	0.087	EPA-6010B	0.39		1
Potassium	2800	2500	mg/kg	50	5.0	EPA-6010B	11		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/05/14	08/06/14 10:00	ARD	PE-OP1	0.990	BXH0263
2	EPA-7471A	08/04/14	08/05/14 09:15	MEV	CETAC1	1.008	BXH0187



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Project: Biosolids

Project Number: Solids Clean up

Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1417252-02	Client Sample Name: Discrete Sample 1, 7/31/2014 8:00:00AM, Nathan Gardner							
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Moisture		8.84	%	0.05	0.05	Calc	ND		1
Solids		91.2	%	0.05	0.05	SM-2540G			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Calc	08/01/14	08/14/14 13:01	TMS	Calc	1	BXH0078
2	SM-2540G	08/04/14	08/04/14 11:00	RAC	MANUAL	1	BXH0264



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Project: Biosolids

Project Number: Solids Clean up

Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1417252-03	Client Sample Name: Discrete Sample 2, 7/31/2014 8:05:00AM, Nathan Gardner							
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Moisture		14.4	%	0.05	0.05	Calc	ND		1
Solids		85.6	%	0.05	0.05	SM-2540G			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Calc	08/01/14	08/14/14 13:01	TMS	Calc	1	BXH0078
2	SM-2540G	08/04/14	08/04/14 11:00	RAC	MANUAL	1	BXH0264



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Project Number: Solids Clean up

Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1417252-04	Client Sample Name: Discrete Sample 3, 7/31/2014 8:07:00AM, Nathan Gardner							
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Moisture		9.99	%	0.05	0.05	Calc	ND		1
Solids		90.0	%	0.05	0.05	SM-2540G			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Calc	08/01/14	08/14/14 13:01	TMS	Calc	1	BXH0078
2	SM-2540G	08/04/14	08/04/14 11:00	RAC	MANUAL	1	BXH0264



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Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1417252-05	Client Sample Name: Discrete Sample 4, 7/31/2014 8:09:00AM, Nathan Gardner							
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Moisture		8.03	%	0.05	0.05	Calc	ND		1
Solids		92.0	%	0.05	0.05	SM-2540G			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Calc	08/01/14	08/14/14 13:01	TMS	Calc	1	BXH0078
2	SM-2540G	08/04/14	08/04/14 11:00	RAC	MANUAL	1	BXH0264



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Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1417252-06	Client Sample Name: Discrete Sample 5, 7/31/2014 8:11:00AM, Nathan Gardner							
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Moisture		9.18	%	0.05	0.05	Calc	ND		1
Solids		90.8	%	0.05	0.05	SM-2540G			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Calc	08/01/14	08/14/14 13:01	TMS	Calc	1	BXH0078
2	SM-2540G	08/04/14	08/04/14 11:00	RAC	MANUAL	1	BXH0264



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Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1417252-07	Client Sample Name: Discrete Sample 6, 7/31/2014 8:14:00AM, Nathan Gardner							
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Moisture		7.97	%	0.05	0.05	Calc	ND		1
Solids		92.0	%	0.05	0.05	SM-2540G			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Calc	08/01/14	08/14/14 13:01	TMS	Calc	1	BXH0078
2	SM-2540G	08/04/14	08/04/14 11:00	RAC	MANUAL	1	BXH0264



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Project: Biosolids

Project Number: Solids Clean up

Project Manager: Victorio Tostado

Chemical Analysis

BCL Sample ID:	1417252-08	Client Sample Name: Discrete Sample 7, 7/31/2014 8:17:00AM, Nathan Gardner							
Constituent	Dry Basis Result	As Recvd Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Moisture		9.34	%	0.05	0.05	Calc	ND		1
Solids		90.7	%	0.05	0.05	SM-2540G			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Calc	08/01/14	08/14/14 13:01	TMS	Calc	1	BXH0078
2	SM-2540G	08/04/14	08/04/14 11:00	RAC	MANUAL	1	BXH0264



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Reported: 08/19/2014 13:37
Project: Biosolids
Project Number: Solids Clean up
Project Manager: Victorio Tostado

Organochlorine Pesticides and PCB's (EPA Method 8080)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0514						
Aldrin	BXH0514-BLK1	ND	mg/kg	0.00050	0.000026	
Dieldrin	BXH0514-BLK1	ND	mg/kg	0.00050	0.000032	
PCB-1016	BXH0514-BLK1	ND	mg/kg	0.010	0.0027	
PCB-1221	BXH0514-BLK1	ND	mg/kg	0.010	0.0038	
PCB-1232	BXH0514-BLK1	ND	mg/kg	0.010	0.0024	
PCB-1242	BXH0514-BLK1	ND	mg/kg	0.010	0.0040	
PCB-1248	BXH0514-BLK1	ND	mg/kg	0.010	0.0026	
PCB-1254	BXH0514-BLK1	ND	mg/kg	0.010	0.0032	
PCB-1260	BXH0514-BLK1	ND	mg/kg	0.010	0.0016	
PCB-1262	BXH0514-BLK1	ND	mg/kg	0.010	0.0044	
PCB-1268	BXH0514-BLK1	ND	mg/kg	0.010	0.0026	
Total PCB's (Summation)	BXH0514-BLK1	ND	mg/kg	0.010	0.0050	
TCMX (Surrogate)	BXH0514-BLK1	71.0	%	20 - 140 (LCL - UCL)		
Decachlorobiphenyl (Surrogate)	BXH0514-BLK1	62.1	%	20 - 140 (LCL - UCL)		

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Reported: 08/19/2014 13:37
Project: Biosolids
Project Number: Solids Clean up
Project Manager: Victorio Tostado

Organochlorine Pesticides and PCB's (EPA Method 8080)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		
							Percent Recovery	RPD	Lab Quals
QC Batch ID: BXH0514									
Aldrin	BXH0514-BS1	LCS	0.0033040	0.0049834	mg/kg	66.3	70 - 130	L01	
Dieldrin	BXH0514-BS1	LCS	0.0032146	0.0049834	mg/kg	64.5	70 - 130	L01	
TCMX (Surrogate)	BXH0514-BS1	LCS	0.0076591	0.0099668	mg/kg	76.8	20 - 140		
Decachlorobiphenyl (Surrogate)	BXH0514-BS1	LCS	0.014154	0.024917	mg/kg	56.8	20 - 140		



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Project: Biosolids

Project Number: Solids Clean up

Project Manager: Victorio Tostado

Organochlorine Pesticides and PCB's (EPA Method 8080)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		
									RPD	Percent Recovery	Lab Quals
QC Batch ID: BXH0514 Used client sample: N											
Aldrin	MS	1416132-45	ND	0.0037342	0.0050847	mg/kg		73.4		30 - 140	
	MSD	1416132-45	ND	0.0037547	0.0050336	mg/kg	0.5	74.6	30	30 - 140	
Dieldrin	MS	1416132-45	ND	0.0036393	0.0050847	mg/kg		71.6		40 - 140	
	MSD	1416132-45	ND	0.0035661	0.0050336	mg/kg	2.0	70.8	30	40 - 140	
TCMX (Surrogate)	MS	1416132-45	ND	0.0087207	0.010169	mg/kg		85.8		20 - 140	
	MSD	1416132-45	ND	0.0079728	0.010067	mg/kg	9.0	79.2		20 - 140	
Decachlorobiphenyl (Surrogate)	MS	1416132-45	ND	0.017700	0.025424	mg/kg		69.6		20 - 140	
	MSD	1416132-45	ND	0.017293	0.025168	mg/kg	2.3	68.7		20 - 140	



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Reported: 08/19/2014 13:37

Project: Biosolids

Project Number: Solids Clean up

Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0515						
Acenaphthene	BXH0515-BLK1	ND	mg/kg	0.10	0.018	
Acenaphthylene	BXH0515-BLK1	ND	mg/kg	0.10	0.019	
Aldrin	BXH0515-BLK1	ND	mg/kg	0.10	0.024	
Aniline	BXH0515-BLK1	ND	mg/kg	0.20	0.053	
Anthracene	BXH0515-BLK1	ND	mg/kg	0.10	0.018	
Benzidine	BXH0515-BLK1	ND	mg/kg	3.0	0.22	
Benzo[a]anthracene	BXH0515-BLK1	ND	mg/kg	0.10	0.012	
Benzo[b]fluoranthene	BXH0515-BLK1	ND	mg/kg	0.10	0.018	
Benzo[k]fluoranthene	BXH0515-BLK1	ND	mg/kg	0.10	0.019	
Benzo[a]pyrene	BXH0515-BLK1	ND	mg/kg	0.10	0.015	
Benzo[g,h,i]perylene	BXH0515-BLK1	ND	mg/kg	0.10	0.056	
Benzoic acid	BXH0515-BLK1	ND	mg/kg	0.50	0.067	
Benzyl alcohol	BXH0515-BLK1	ND	mg/kg	0.10	0.018	
Benzyl butyl phthalate	BXH0515-BLK1	ND	mg/kg	0.10	0.021	
alpha-BHC	BXH0515-BLK1	ND	mg/kg	0.10	0.018	
beta-BHC	BXH0515-BLK1	ND	mg/kg	0.10	0.021	
delta-BHC	BXH0515-BLK1	ND	mg/kg	0.10	0.018	
gamma-BHC (Lindane)	BXH0515-BLK1	ND	mg/kg	0.10	0.017	
bis(2-Chloroethoxy)methane	BXH0515-BLK1	ND	mg/kg	0.10	0.017	
bis(2-Chloroethyl) ether	BXH0515-BLK1	ND	mg/kg	0.10	0.016	
bis(2-Chloroisopropyl)ether	BXH0515-BLK1	ND	mg/kg	0.10	0.021	
bis(2-Ethylhexyl)phthalate	BXH0515-BLK1	ND	mg/kg	0.20	0.043	
4-Bromophenyl phenyl ether	BXH0515-BLK1	ND	mg/kg	0.10	0.017	
4-Chloroaniline	BXH0515-BLK1	ND	mg/kg	0.10	0.027	
2-Chloronaphthalene	BXH0515-BLK1	ND	mg/kg	0.10	0.020	
4-Chlorophenyl phenyl ether	BXH0515-BLK1	ND	mg/kg	0.10	0.015	
Chrysene	BXH0515-BLK1	ND	mg/kg	0.10	0.017	
4,4'-DDD	BXH0515-BLK1	ND	mg/kg	0.10	0.017	
4,4'-DDE	BXH0515-BLK1	ND	mg/kg	0.10	0.017	
4,4'-DDT	BXH0515-BLK1	ND	mg/kg	0.10	0.019	
Dibenzo[a,h]anthracene	BXH0515-BLK1	ND	mg/kg	0.10	0.019	
Dibenzofuran	BXH0515-BLK1	ND	mg/kg	0.10	0.020	
1,2-Dichlorobenzene	BXH0515-BLK1	ND	mg/kg	0.10	0.020	
1,3-Dichlorobenzene	BXH0515-BLK1	ND	mg/kg	0.10	0.021	

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City of Patterson
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Reported: 08/19/2014 13:37
Project: Biosolids
Project Number: Solids Clean up
Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0515						
1,4-Dichlorobenzene	BXH0515-BLK1	ND	mg/kg	0.10	0.019	
3,3-Dichlorobenzidine	BXH0515-BLK1	ND	mg/kg	0.20	0.0067	
Dieldrin	BXH0515-BLK1	ND	mg/kg	0.10	0.031	
Diethyl phthalate	BXH0515-BLK1	ND	mg/kg	0.10	0.019	
Dimethyl phthalate	BXH0515-BLK1	ND	mg/kg	0.10	0.020	
Di-n-butyl phthalate	BXH0515-BLK1	ND	mg/kg	0.10	0.018	
2,4-Dinitrotoluene	BXH0515-BLK1	ND	mg/kg	0.10	0.022	
2,6-Dinitrotoluene	BXH0515-BLK1	ND	mg/kg	0.10	0.018	
Di-n-octyl phthalate	BXH0515-BLK1	ND	mg/kg	0.10	0.017	
1,2-Diphenylhydrazine	BXH0515-BLK1	ND	mg/kg	0.10	0.019	
Endosulfan I	BXH0515-BLK1	ND	mg/kg	0.20	0.020	
Endosulfan II	BXH0515-BLK1	ND	mg/kg	0.20	0.021	
Endosulfan sulfate	BXH0515-BLK1	ND	mg/kg	0.10	0.021	
Endrin	BXH0515-BLK1	ND	mg/kg	0.20	0.025	
Endrin aldehyde	BXH0515-BLK1	ND	mg/kg	0.50	0.022	
Fluoranthene	BXH0515-BLK1	ND	mg/kg	0.10	0.017	
Fluorene	BXH0515-BLK1	ND	mg/kg	0.10	0.019	
Heptachlor	BXH0515-BLK1	ND	mg/kg	0.10	0.021	
Heptachlor epoxide	BXH0515-BLK1	ND	mg/kg	0.10	0.017	
Hexachlorobenzene	BXH0515-BLK1	ND	mg/kg	0.10	0.016	
Hexachlorobutadiene	BXH0515-BLK1	ND	mg/kg	0.10	0.017	
Hexachlorocyclopentadiene	BXH0515-BLK1	ND	mg/kg	0.10	0.019	
Hexachloroethane	BXH0515-BLK1	ND	mg/kg	0.10	0.020	
Indeno[1,2,3-cd]pyrene	BXH0515-BLK1	ND	mg/kg	0.10	0.072	
Isophorone	BXH0515-BLK1	ND	mg/kg	0.10	0.017	
2-Methylnaphthalene	BXH0515-BLK1	ND	mg/kg	0.10	0.018	
Naphthalene	BXH0515-BLK1	ND	mg/kg	0.10	0.018	
2-Naphthylamine	BXH0515-BLK1	ND	mg/kg	3.0	0.16	
2-Nitroaniline	BXH0515-BLK1	ND	mg/kg	0.10	0.018	
3-Nitroaniline	BXH0515-BLK1	ND	mg/kg	0.20	0.015	
4-Nitroaniline	BXH0515-BLK1	ND	mg/kg	0.20	0.025	
Nitrobenzene	BXH0515-BLK1	ND	mg/kg	0.10	0.015	
N-Nitrosodimethylamine	BXH0515-BLK1	ND	mg/kg	0.10	0.037	
N-Nitrosodi-N-propylamine	BXH0515-BLK1	ND	mg/kg	0.10	0.021	

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Reported: 08/19/2014 13:37
Project: Biosolids
Project Number: Solids Clean up
Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)**Quality Control Report - Method Blank Analysis**

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0515						
N-Nitrosodiphenylamine	BXH0515-BLK1	ND	mg/kg	0.10	0.021	
Phenanthrene	BXH0515-BLK1	ND	mg/kg	0.10	0.018	
Pyrene	BXH0515-BLK1	ND	mg/kg	0.10	0.017	
1,2,4-Trichlorobenzene	BXH0515-BLK1	ND	mg/kg	0.10	0.018	
4-Chloro-3-methylphenol	BXH0515-BLK1	ND	mg/kg	0.20	0.022	
2-Chlorophenol	BXH0515-BLK1	ND	mg/kg	0.10	0.016	
2,4-Dichlorophenol	BXH0515-BLK1	ND	mg/kg	0.10	0.017	
2,4-Dimethylphenol	BXH0515-BLK1	ND	mg/kg	0.10	0.035	
4,6-Dinitro-2-methylphenol	BXH0515-BLK1	ND	mg/kg	0.50	0.012	
2,4-Dinitrophenol	BXH0515-BLK1	ND	mg/kg	0.50	0.0077	
2-Methylphenol	BXH0515-BLK1	ND	mg/kg	0.10	0.017	
3- & 4-Methylphenol	BXH0515-BLK1	ND	mg/kg	0.20	0.033	
2-Nitrophenol	BXH0515-BLK1	ND	mg/kg	0.10	0.016	
4-Nitrophenol	BXH0515-BLK1	ND	mg/kg	0.20	0.018	
Pentachlorophenol	BXH0515-BLK1	ND	mg/kg	0.20	0.013	
Phenol	BXH0515-BLK1	ND	mg/kg	0.10	0.016	
2,4,5-Trichlorophenol	BXH0515-BLK1	ND	mg/kg	0.20	0.018	
2,4,6-Trichlorophenol	BXH0515-BLK1	ND	mg/kg	0.20	0.017	
2-Fluorophenol (Surrogate)	BXH0515-BLK1	73.8	%	28 - 144 (LCL - UCL)		
Phenol-d5 (Surrogate)	BXH0515-BLK1	84.7	%	36 - 136 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BXH0515-BLK1	93.0	%	31 - 135 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BXH0515-BLK1	78.4	%	20 - 140 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BXH0515-BLK1	80.6	%	20 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BXH0515-BLK1	75.0	%	30 - 150 (LCL - UCL)		



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Reported: 08/19/2014 13:37

Project: Biosolids

Project Number: Solids Clean up

Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		
							Percent Recovery	RPD	Lab Quals
QC Batch ID: BXH0515									
Acenaphthene	BXH0515-BS1	LCS	1.5275	1.6779	mg/kg	91.0	50 - 140		
1,4-Dichlorobenzene	BXH0515-BS1	LCS	1.6440	1.6779	mg/kg	98.0	40 - 140		
2,4-Dinitrotoluene	BXH0515-BS1	LCS	1.5393	1.6779	mg/kg	91.7	40 - 140		
Hexachlorobenzene	BXH0515-BS1	LCS	1.3983	1.6779	mg/kg	83.3	46 - 140		
Hexachlorobutadiene	BXH0515-BS1	LCS	1.2745	1.6779	mg/kg	76.0	40 - 120		
Hexachloroethane	BXH0515-BS1	LCS	1.4681	1.6779	mg/kg	87.5	40 - 120		
Nitrobenzene	BXH0515-BS1	LCS	1.3399	1.6779	mg/kg	79.9	40 - 130		
N-Nitrosodi-N-propylamine	BXH0515-BS1	LCS	0.71544	1.6779	mg/kg	42.6	40 - 120		
Pyrene	BXH0515-BS1	LCS	1.5950	1.6779	mg/kg	95.1	40 - 150		
1,2,4-Trichlorobenzene	BXH0515-BS1	LCS	1.3570	1.6779	mg/kg	80.9	40 - 140		
4-Chloro-3-methylphenol	BXH0515-BS1	LCS	1.7161	1.6779	mg/kg	102	40 - 130		
2-Chlorophenol	BXH0515-BS1	LCS	1.5124	1.6779	mg/kg	90.1	40 - 130		
2-Methylphenol	BXH0515-BS1	LCS	1.6926	1.6779	mg/kg	101	40 - 140		
3- & 4-Methylphenol	BXH0515-BS1	LCS	3.1027	3.3557	mg/kg	92.5	40 - 120		
4-Nitrophenol	BXH0515-BS1	LCS	1.1060	1.6779	mg/kg	65.9	20 - 120		
Pentachlorophenol	BXH0515-BS1	LCS	1.0282	1.6779	mg/kg	61.3	20 - 130		
Phenol	BXH0515-BS1	LCS	1.4138	1.6779	mg/kg	84.3	40 - 120		
2,4,6-Trichlorophenol	BXH0515-BS1	LCS	1.5295	1.6779	mg/kg	91.2	44 - 130		
2-Fluorophenol (Surrogate)	BXH0515-BS1	LCS	2.0376	2.6846	mg/kg	75.9	28 - 144		
Phenol-d5 (Surrogate)	BXH0515-BS1	LCS	2.3040	2.6846	mg/kg	85.8	36 - 136		
Nitrobenzene-d5 (Surrogate)	BXH0515-BS1	LCS	2.4654	2.6846	mg/kg	91.8	31 - 135		
2-Fluorobiphenyl (Surrogate)	BXH0515-BS1	LCS	2.1617	2.6846	mg/kg	80.5	20 - 140		
2,4,6-Tribromophenol (Surrogate)	BXH0515-BS1	LCS	2.5497	2.6846	mg/kg	95.0	20 - 150		
p-Terphenyl-d14 (Surrogate)	BXH0515-BS1	LCS	1.2128	1.3423	mg/kg	90.4	30 - 150		



City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 08/19/2014 13:37

Project: Biosolids

Project Number: Solids Clean up

Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		
									RPD	Percent Recovery	Lab Quals
QC Batch ID: BXH0515 Used client sample: N											
Acenaphthene	MS	1416132-47	ND	1.4841	1.6722	mg/kg		88.7		40 - 140	
	MSD	1416132-47	ND	1.5239	1.6779	mg/kg	2.6	90.8	30	40 - 140	
1,4-Dichlorobenzene	MS	1416132-47	ND	1.6064	1.6722	mg/kg		96.1		30 - 150	
	MSD	1416132-47	ND	1.6498	1.6779	mg/kg	2.7	98.3	30	30 - 150	
2,4-Dinitrotoluene	MS	1416132-47	ND	1.5823	1.6722	mg/kg		94.6		30 - 140	
	MSD	1416132-47	ND	1.4923	1.6779	mg/kg	5.9	88.9	30	30 - 140	
Hexachlorobenzene	MS	1416132-47	ND	1.3551	1.6722	mg/kg		81.0		30 - 150	
	MSD	1416132-47	ND	1.4103	1.6779	mg/kg	4.0	84.1	30	30 - 150	
Hexachlorobutadiene	MS	1416132-47	ND	1.3173	1.6722	mg/kg		78.8		20 - 140	
	MSD	1416132-47	ND	1.2588	1.6779	mg/kg	4.5	75.0	30	20 - 140	
Hexachloroethane	MS	1416132-47	ND	1.4457	1.6722	mg/kg		86.4		30 - 140	
	MSD	1416132-47	ND	1.4641	1.6779	mg/kg	1.3	87.3	30	30 - 140	
Nitrobenzene	MS	1416132-47	ND	1.3418	1.6722	mg/kg		80.2		30 - 140	
	MSD	1416132-47	ND	1.3571	1.6779	mg/kg	1.1	80.9	30	30 - 140	
N-Nitrosodi-N-propylamine	MS	1416132-47	ND	0.96334	1.6722	mg/kg		57.6		30 - 120	
	MSD	1416132-47	ND	0.81526	1.6779	mg/kg	16.7	48.6	30	30 - 120	
Pyrene	MS	1416132-47	ND	1.4949	1.6722	mg/kg		89.4		40 - 150	
	MSD	1416132-47	ND	1.5358	1.6779	mg/kg	2.7	91.5	30	40 - 150	
1,2,4-Trichlorobenzene	MS	1416132-47	ND	1.3268	1.6722	mg/kg		79.3		30 - 150	
	MSD	1416132-47	ND	1.3069	1.6779	mg/kg	1.5	77.9	30	30 - 150	
4-Chloro-3-methylphenol	MS	1416132-47	ND	1.7596	1.6722	mg/kg		105		40 - 130	
	MSD	1416132-47	ND	1.7195	1.6779	mg/kg	2.3	102	30	40 - 130	
2-Chlorophenol	MS	1416132-47	ND	1.5251	1.6722	mg/kg		91.2		40 - 130	
	MSD	1416132-47	ND	1.5292	1.6779	mg/kg	0.3	91.1	30	40 - 130	
2-Methylphenol	MS	1416132-47	ND	1.6512	1.6722	mg/kg		98.7		30 - 140	
	MSD	1416132-47	ND	1.6747	1.6779	mg/kg	1.4	99.8	30	30 - 140	
3- & 4-Methylphenol	MS	1416132-47	ND	3.2147	3.3445	mg/kg		96.1		40 - 130	
	MSD	1416132-47	ND	3.1045	3.3557	mg/kg	3.5	92.5	30	40 - 130	
4-Nitrophenol	MS	1416132-47	ND	1.1028	1.6722	mg/kg		65.9		20 - 140	
	MSD	1416132-47	ND	1.0946	1.6779	mg/kg	0.7	65.2	30	20 - 140	
Pentachlorophenol	MS	1416132-47	ND	0.96398	1.6722	mg/kg		57.6		20 - 130	
	MSD	1416132-47	ND	0.90794	1.6779	mg/kg	6.0	54.1	30	20 - 130	
Phenol	MS	1416132-47	ND	1.3935	1.6722	mg/kg		83.3		30 - 130	
	MSD	1416132-47	ND	1.4305	1.6779	mg/kg	2.6	85.3	30	30 - 130	
2,4,6-Trichlorophenol	MS	1416132-47	ND	1.5229	1.6722	mg/kg		91.1		40 - 140	
	MSD	1416132-47	ND	1.4405	1.6779	mg/kg	5.6	85.9	30	40 - 140	

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City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 08/19/2014 13:37
Project: Biosolids
Project Number: Solids Clean up
Project Manager: Victorio Tostado

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		
									RPD	Percent Recovery	Lab Quals
QC Batch ID: BXH0515 Used client sample: N											
2-Fluorophenol (Surrogate)	MS	1416132-47	ND	1.9286	2.6756	mg/kg		72.1		28 - 144	
	MSD	1416132-47	ND	2.0162	2.6846	mg/kg	4.4	75.1		28 - 144	
Phenol-d5 (Surrogate)	MS	1416132-47	ND	2.2142	2.6756	mg/kg		82.8		36 - 136	
	MSD	1416132-47	ND	2.3195	2.6846	mg/kg	4.6	86.4		36 - 136	
Nitrobenzene-d5 (Surrogate)	MS	1416132-47	ND	2.4614	2.6756	mg/kg		92.0		31 - 135	
	MSD	1416132-47	ND	2.5285	2.6846	mg/kg	2.7	94.2		31 - 135	
2-Fluorobiphenyl (Surrogate)	MS	1416132-47	ND	2.1027	2.6756	mg/kg		78.6		20 - 140	
	MSD	1416132-47	ND	2.1501	2.6846	mg/kg	2.2	80.1		20 - 140	
2,4,6-Tribromophenol (Surrogate)	MS	1416132-47	ND	2.4373	2.6756	mg/kg		91.1		20 - 150	
	MSD	1416132-47	ND	2.5594	2.6846	mg/kg	4.9	95.3		20 - 150	
p-Terphenyl-d14 (Surrogate)	MS	1416132-47	ND	1.1155	1.3378	mg/kg		83.4		30 - 150	
	MSD	1416132-47	ND	1.1252	1.3423	mg/kg	0.9	83.8		30 - 150	



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Environmental Testing Laboratory Since 1949

City of Patterson
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Reported: 08/19/2014 13:37
Project: Biosolids
Project Number: Solids Clean up
Project Manager: Victorio Tostado

Chemical Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0078						
Total Nitrogen	BXH0078-BLK1	ND	mg/kg	60	20	
Organic Nitrogen	BXH0078-BLK1	ND	mg/kg	40	20	
Moisture	BXH0078-BLK1	ND	%	0.05	0.05	
Chloride as NaCl (Salinity)	BXH0078-BLK1	ND	mg/kg	30	0.96	
QC Batch ID: BXH0280						
Ammonia as N	BXH0280-BLK1	5.6500	mg/kg	10	5.0	J
QC Batch ID: BXH0295						
Chloride	BXH0295-BLK1	0.24400	mg/kg	0.50	0.059	J
Nitrate as N	BXH0295-BLK1	0.036000	mg/kg	0.10	0.026	J
QC Batch ID: BXH1135						
Total Kjeldahl Nitrogen	BXH1135-BLK1	ND	mg/kg	40	16	
QC Batch ID: BXH1137						
Total Phosphorus	BXH1137-BLK1	ND	mg/kg	10	4.3	



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Project: Biosolids

Project Number: Solids Clean up

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Chemical Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		
							Percent Recovery	RPD	Lab Quals
QC Batch ID: BXH0280									
Ammonia as N	BXH0280-BS1	LCS	94.370	100.00	mg/kg	94.4		80 - 120	
QC Batch ID: BXH0295									
Chloride	BXH0295-BS1	LCS	48.955	50.000	mg/kg	97.9		90 - 110	
Nitrate as N	BXH0295-BS1	LCS	4.9030	5.0000	mg/kg	98.1		90 - 110	
QC Batch ID: BXH0424									
pH	BXH0424-BS1	LCS	3.9270	4.0000	pH Units	98.2		95 - 105	
QC Batch ID: BXH1135									
Total Kjeldahl Nitrogen	BXH1135-BS1	LCS	428.22	400.00	mg/kg	107		90 - 110	
QC Batch ID: BXH1137									
Total Phosphorus	BXH1137-BS1	LCS	197.82	200.00	mg/kg	98.9		85 - 115	



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Reported: 08/19/2014 13:37

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Chemical Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source	Source	Spike	Units	Percent	Control Limits		
		Sample ID	Result	Added			RPD	Recovery	RPD
QC Batch ID: BXH0264		Used client sample: Y - Description: Composite Sample 1-7, 07/30/2014 00:00							
Solids	DUP	1417252-01	90.150	90.120	%	0.0			20
QC Batch ID: BXH0280		Used client sample: Y - Description: Composite Sample 1-7, 07/30/2014 00:00							
Ammonia as N	DUP	1417252-01	9681.0	8715.0	mg/kg	10.5			20
	MS	1417252-01	9681.0	9602.0	mg/kg	-79.0	80 - 120	A03	
	MSD	1417252-01	9681.0	9752.5	mg/kg	1.6	71.5	20	80 - 120 A03
QC Batch ID: BXH0295		Used client sample: N							
Chloride	DUP	1417245-01	4205.4	4235.6	mg/kg	0.7			20
	MS	1417245-01	4205.4	6769.5	mg/kg	102	80 - 120		
	MSD	1417245-01	4205.4	6758.1	mg/kg	0.2	101	20	80 - 120
Nitrate as N	DUP	1417245-01	37.600	36.950	mg/kg	1.7			20
	MS	1417245-01	37.600	291.62	mg/kg	101	80 - 120		
	MSD	1417245-01	37.600	291.06	mg/kg	0.2	100	20	80 - 120
QC Batch ID: BXH0424		Used client sample: N							
pH	DUP	1417242-01	8.4340	8.4370	pH Units	0.0			20
QC Batch ID: BXH1135		Used client sample: N							
Total Kjeldahl Nitrogen	DUP	1417884-01	2828.4	2655.5	mg/kg	6.3			20
	MS	1417884-01	2828.4	3014.9	mg/kg	46.6	90 - 110	A03	
	MSD	1417884-01	2828.4	3171.0	mg/kg	5.0	85.6	20	90 - 110 A03
QC Batch ID: BXH1137		Used client sample: N							
Total Phosphorus	DUP	1417884-01	1002.2	1639.2	mg/kg	48.2			Q01
	MS	1417884-01	1002.2	1155.3	mg/kg	76.6	80 - 120	A03	
	MSD	1417884-01	1002.2	1241.8	mg/kg	7.2	120	20	80 - 120



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Project Manager: Victorio Tostado

Modified WET Test (STLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0599						
Total Dissolved Solids @ 180 C	BXH0599-BLK1	ND	mg/L	6.7	6.7	



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Modified WET Test (STLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		
							Percent Recovery	RPD	Lab Quals
QC Batch ID: BXH0599									
Total Dissolved Solids @ 180 C	BXH0599-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110	
QC Batch ID: BXH0719									
Electrical Conductivity @ 25 C	BXH0719-BS1	LCS	311.30	303.00	umhos/cm	103		90 - 110	



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Modified WET Test (STLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source	Source	Result	Spike	Units	Percent	Control Limits			
		Sample ID	Result		Added			RPD	RPD	Percent Recovery	Lab Recovery
QC Batch ID: BXH0599		Used client sample: N									
Total Dissolved Solids @ 180 C	DUP	1417416-01	1800.0	1750.0		mg/L	2.8			20	
QC Batch ID: BXH0719		Used client sample: Y - Description: Composite Sample 1-7, 07/30/2014 00:00									
Electrical Conductivity @ 25 C	DUP	1417252-01	6942.1	6942.7		umhos/cm	0.0			20	



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Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0187						
Mercury	BXH0187-BLK1	ND	mg/kg	0.16	0.036	
QC Batch ID: BXH0263						
Arsenic	BXH0263-BLK1	ND	mg/kg	1.0	0.40	
Cadmium	BXH0263-BLK1	ND	mg/kg	0.50	0.052	
Chromium	BXH0263-BLK1	ND	mg/kg	0.50	0.050	
Copper	BXH0263-BLK1	ND	mg/kg	1.0	0.050	
Lead	BXH0263-BLK1	ND	mg/kg	2.5	0.28	
Molybdenum	BXH0263-BLK1	ND	mg/kg	2.5	0.050	
Nickel	BXH0263-BLK1	ND	mg/kg	0.50	0.15	
Selenium	BXH0263-BLK1	ND	mg/kg	1.0	0.98	
Zinc	BXH0263-BLK1	0.39702	mg/kg	2.5	0.087	J
Potassium	BXH0263-BLK1	11.566	mg/kg	50	5.0	J



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Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		
							Percent Recovery	RPD	Lab Quals
QC Batch ID: BXH0187									
Mercury	BXH0187-BS1	LCS	0.81104	0.80000	mg/kg	101	80 - 120		
QC Batch ID: BXH0263									
Arsenic	BXH0263-BS1	LCS	9.3674	10.000	mg/kg	93.7	75 - 125		
Cadmium	BXH0263-BS1	LCS	9.9560	10.000	mg/kg	99.6	75 - 125		
Chromium	BXH0263-BS1	LCS	97.160	100.00	mg/kg	97.2	75 - 125		
Copper	BXH0263-BS1	LCS	98.163	100.00	mg/kg	98.2	75 - 125		
Lead	BXH0263-BS1	LCS	102.66	100.00	mg/kg	103	75 - 125		
Molybdenum	BXH0263-BS1	LCS	99.364	100.00	mg/kg	99.4	75 - 125		
Nickel	BXH0263-BS1	LCS	104.34	100.00	mg/kg	104	75 - 125		
Selenium	BXH0263-BS1	LCS	9.7874	10.000	mg/kg	97.9	75 - 125		
Zinc	BXH0263-BS1	LCS	102.51	100.00	mg/kg	103	75 - 125		
Potassium	BXH0263-BS1	LCS	454.43	500.00	mg/kg	90.9	75 - 125		



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Reported: 08/19/2014 13:37

Project: Biosolids

Project Number: Solids Clean up

Project Manager: Victorio Tostado

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Spike Result	Spike Added	Units	Percent Recovery	Control Limits		
								RPD	Percent Recovery	Lab Quals
QC Batch ID: BXH0187 Used client sample: N										
Mercury	DUP	1416931-01	ND	ND		mg/kg			20	
	MS	1416931-01	ND	0.81645	0.80645	mg/kg		101		80 - 120
	MSD	1416931-01	ND	0.81484	0.80645	mg/kg	0.2	101	20	80 - 120
QC Batch ID: BXH0263 Used client sample: N										
Arsenic	DUP	1417361-01	ND	ND		mg/kg			20	
	MS	1417361-01	ND	9.3748	9.9010	mg/kg		94.7		75 - 125
	MSD	1417361-01	ND	10.045	9.9010	mg/kg	6.9	101	20	75 - 125
Cadmium	DUP	1417361-01	ND	ND		mg/kg			20	
	MS	1417361-01	ND	10.010	9.9010	mg/kg		101		75 - 125
	MSD	1417361-01	ND	10.506	9.9010	mg/kg	4.8	106	20	75 - 125
Chromium	DUP	1417361-01	12.514	12.600		mg/kg	0.7		20	
	MS	1417361-01	12.514	106.15	99.010	mg/kg		94.6		75 - 125
	MSD	1417361-01	12.514	113.48	99.010	mg/kg	6.7	102	20	75 - 125
Copper	DUP	1417361-01	12.540	12.886		mg/kg	2.7		20	
	MS	1417361-01	12.540	110.11	99.010	mg/kg		98.5		75 - 125
	MSD	1417361-01	12.540	117.96	99.010	mg/kg	6.9	106	20	75 - 125
Lead	DUP	1417361-01	12.159	12.334		mg/kg	1.4		20	
	MS	1417361-01	12.159	106.64	99.010	mg/kg		95.4		75 - 125
	MSD	1417361-01	12.159	112.86	99.010	mg/kg	5.7	102	20	75 - 125
Molybdenum	DUP	1417361-01	1.2486	1.1951		mg/kg	4.4		20	J
	MS	1417361-01	1.2486	91.421	99.010	mg/kg		91.1		75 - 125
	MSD	1417361-01	1.2486	95.419	99.010	mg/kg	4.3	95.1	20	75 - 125
Nickel	DUP	1417361-01	12.176	12.262		mg/kg	0.7		20	
	MS	1417361-01	12.176	100.91	99.010	mg/kg		89.6		75 - 125
	MSD	1417361-01	12.176	113.26	99.010	mg/kg	11.5	102	20	75 - 125
Selenium	DUP	1417361-01	ND	ND		mg/kg			20	
	MS	1417361-01	ND	11.411	9.9010	mg/kg		115		75 - 125
	MSD	1417361-01	ND	10.198	9.9010	mg/kg	11.2	103	20	75 - 125
Zinc	DUP	1417361-01	56.496	56.413		mg/kg	0.1		20	
	MS	1417361-01	56.496	152.58	99.010	mg/kg		97.0		75 - 125
	MSD	1417361-01	56.496	148.58	99.010	mg/kg	2.7	93.0	20	75 - 125
Potassium	DUP	1417361-01	4260.0	4285.2		mg/kg	0.6		20	
	MS	1417361-01	4260.0	5031.8	495.05	mg/kg		156		75 - 125
	MSD	1417361-01	4260.0	4990.2	495.05	mg/kg	0.8	147	20	A03
										A03

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DENALI_002774



City of Patterson
P.O. Box 667
Patterson, CA 95363

Reported: 08/19/2014 13:37
Project: Biosolids
Project Number: Solids Clean up
Project Manager: Victorio Tostado

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A03	The sample concentration is more than 4 times the spike level.
A10	PQL's and MDL's were raised due to matrix interference.
L01	The Laboratory Control Sample Water (LCSW) recovery is not within laboratory established control limits.
pH1:3	pH result reported on a 1:3 dilution of sample
Q01	Sample precision is not within the control limits.